

FIG. 1

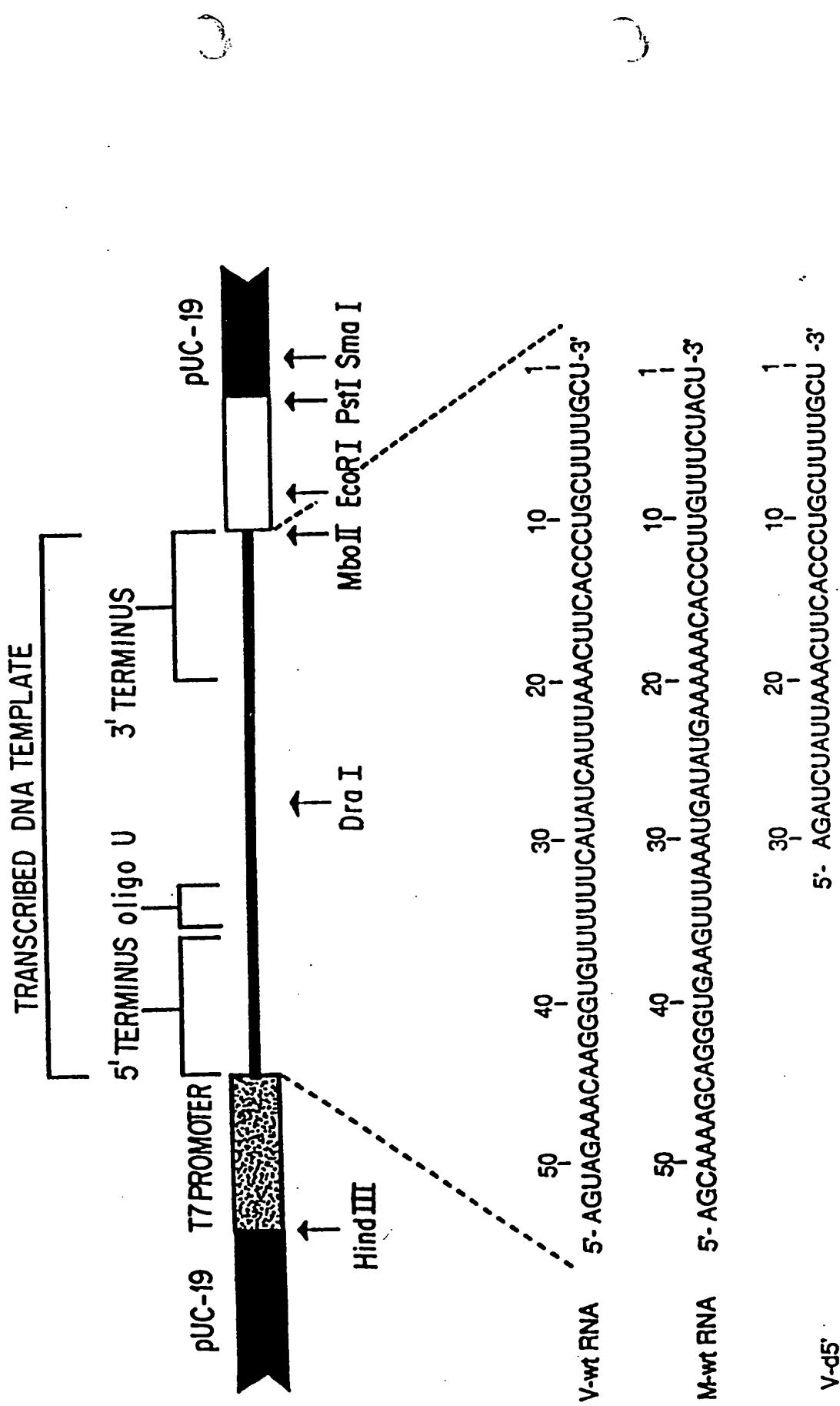


FIG. 2

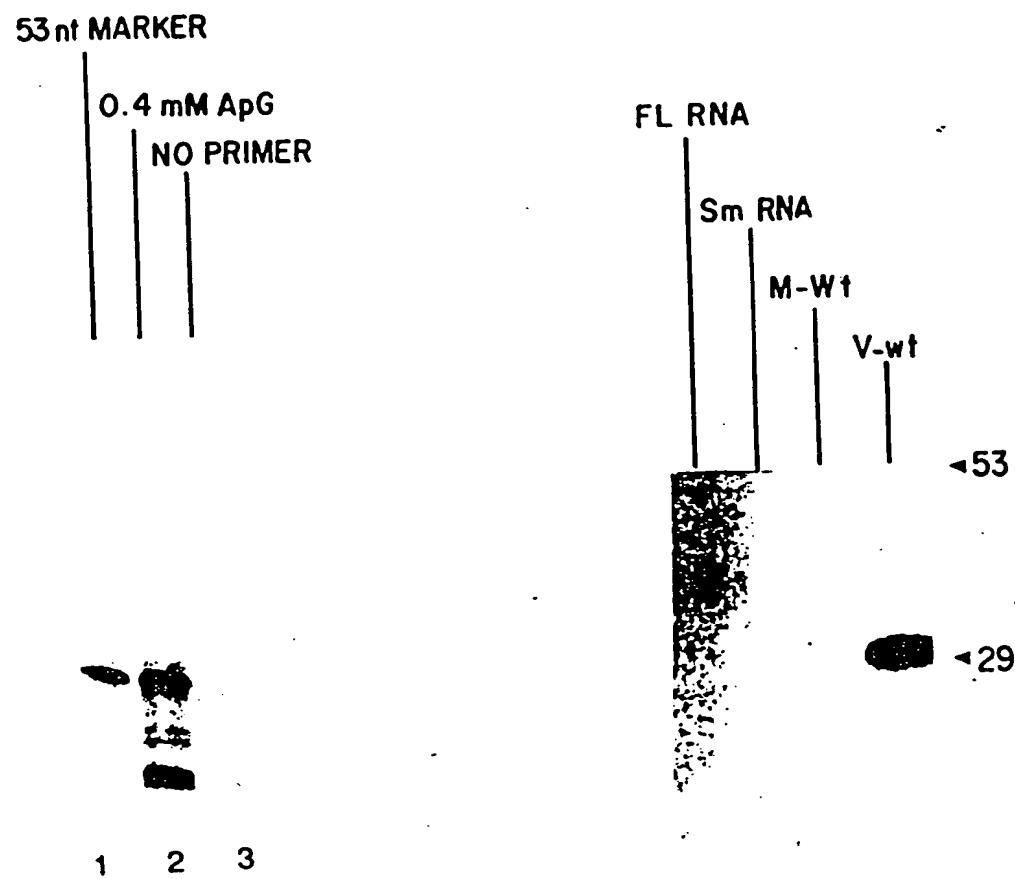


FIG. 3A

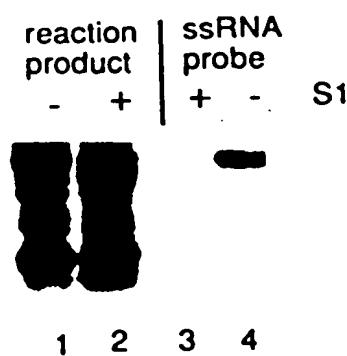


FIG. 3B



FIG. 3C

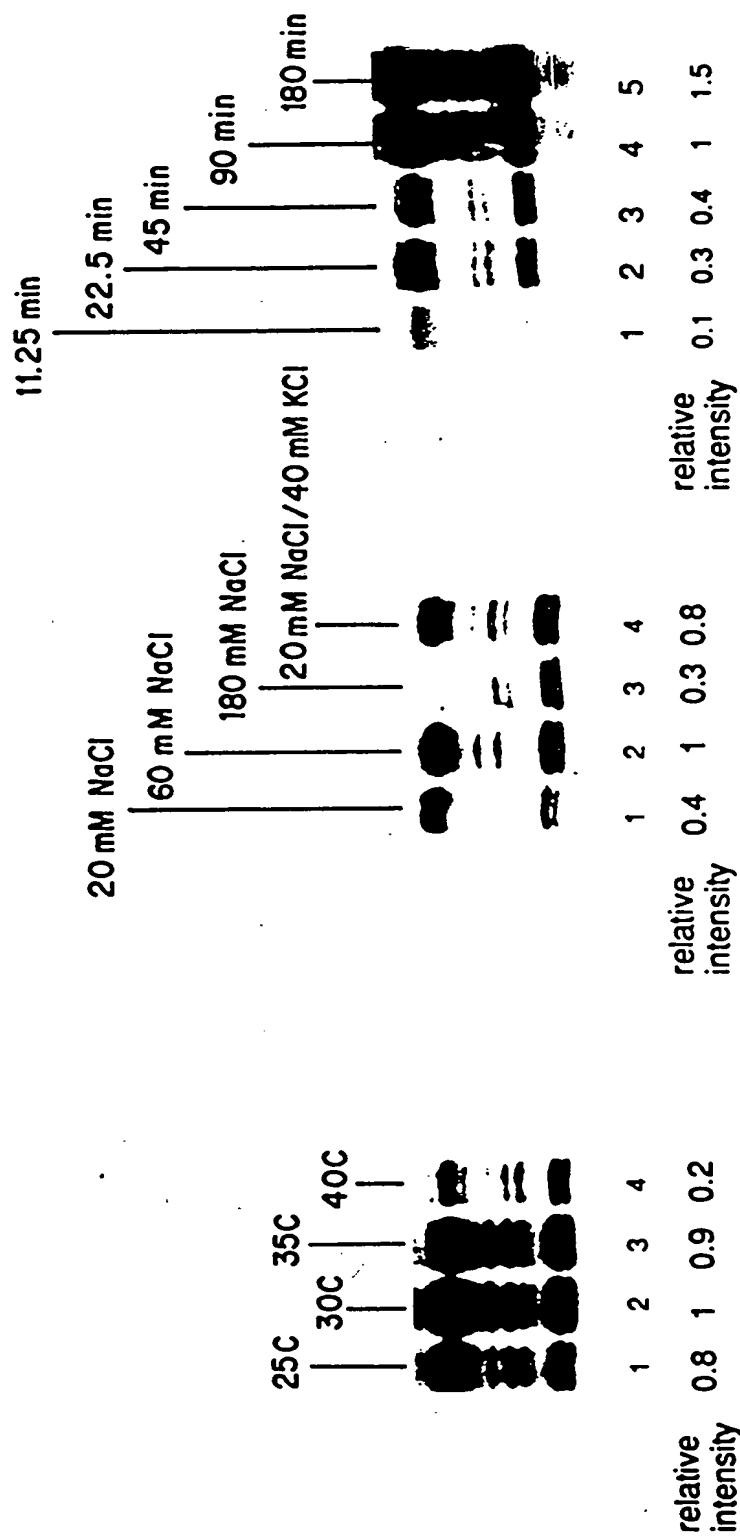


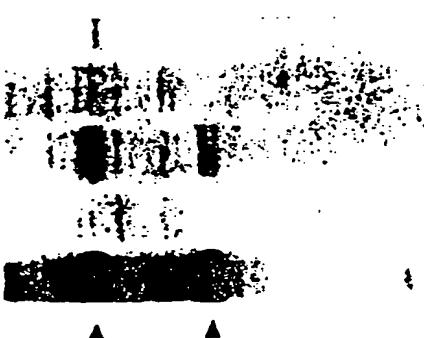
FIG. 4A

FIG. 4B

FIG. 4C

FIG. 5B

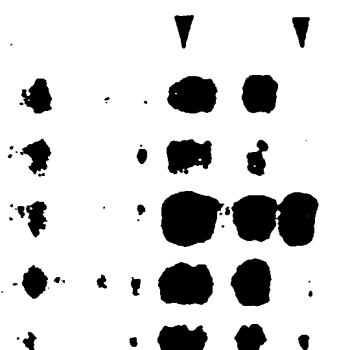
1 2 3 4 5



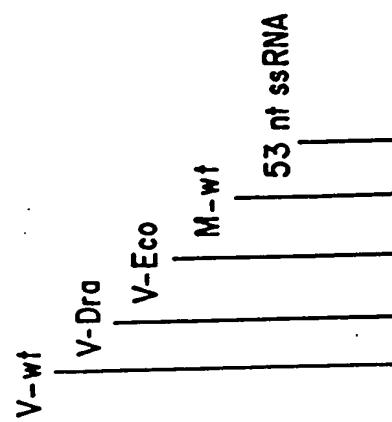
V-wt
V-Dra
V-Eco
M-wt
53 nt ssRNA

FIG. 5A

1 2 3 4 5



V-Pst
V-Sma
V-wt
IBI-31



V-wt
V-Dra
V-Eco
M-wt
53 nt ssRNA

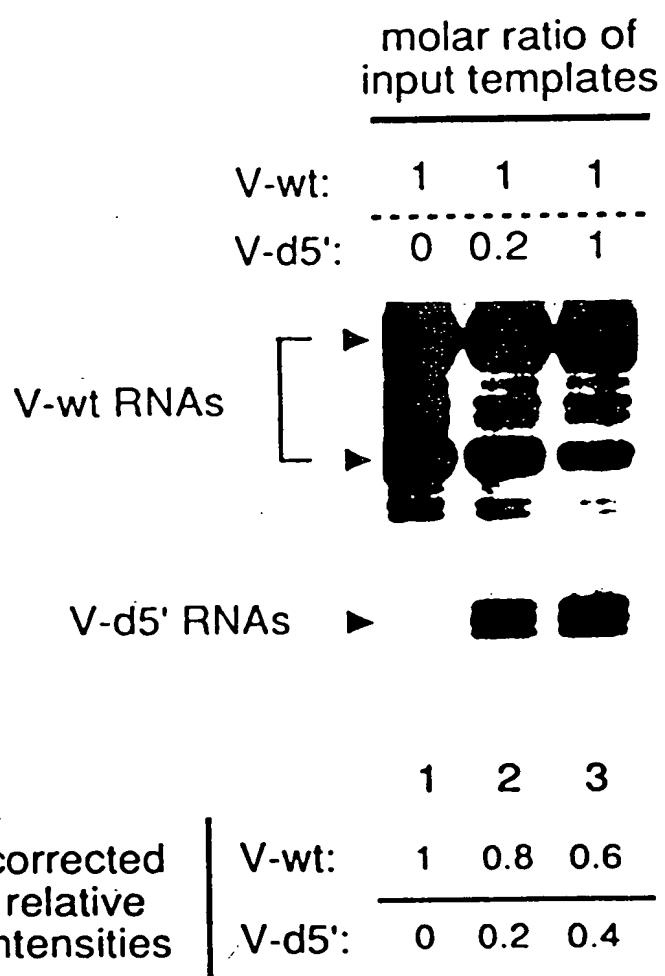
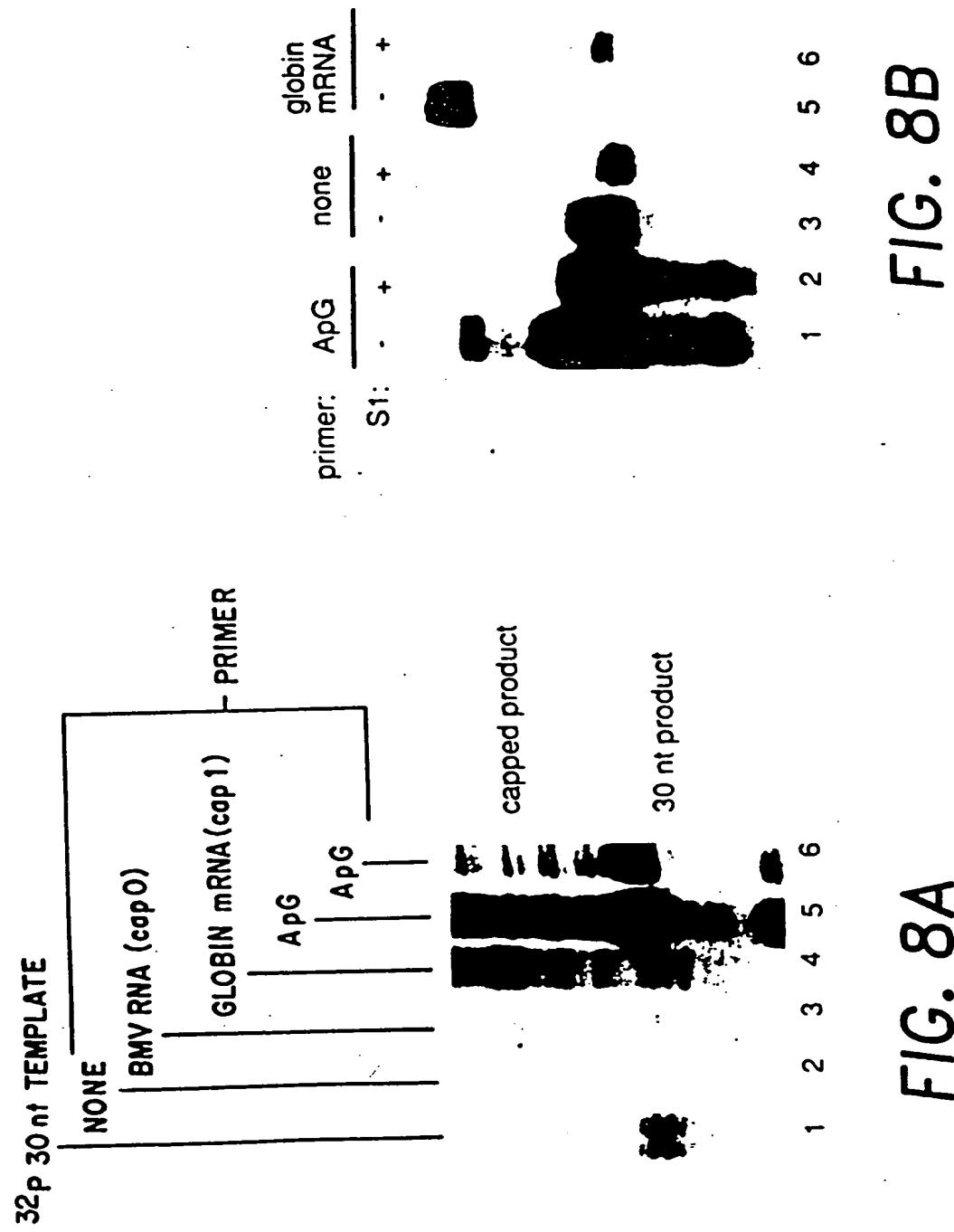


FIG. 6





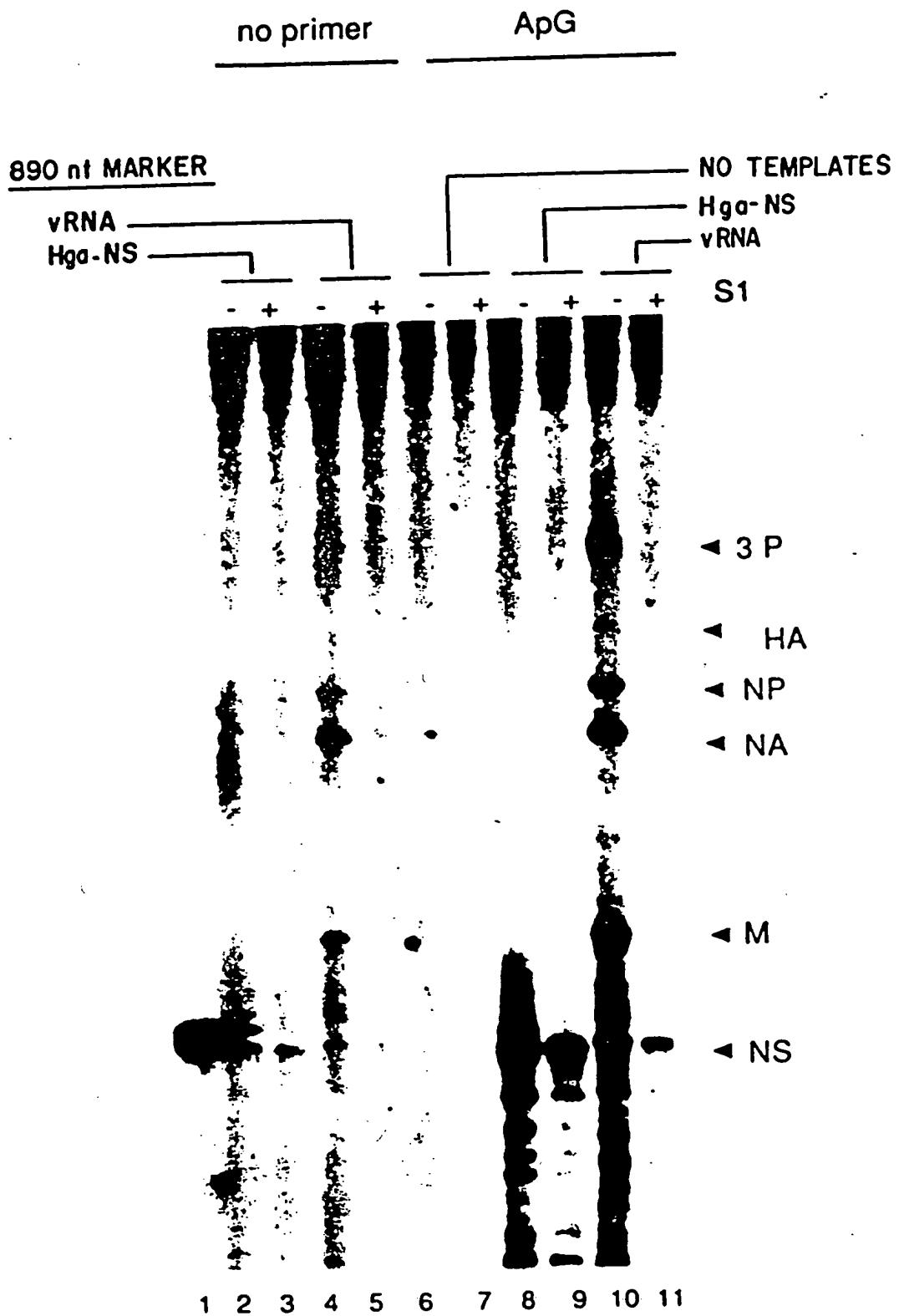
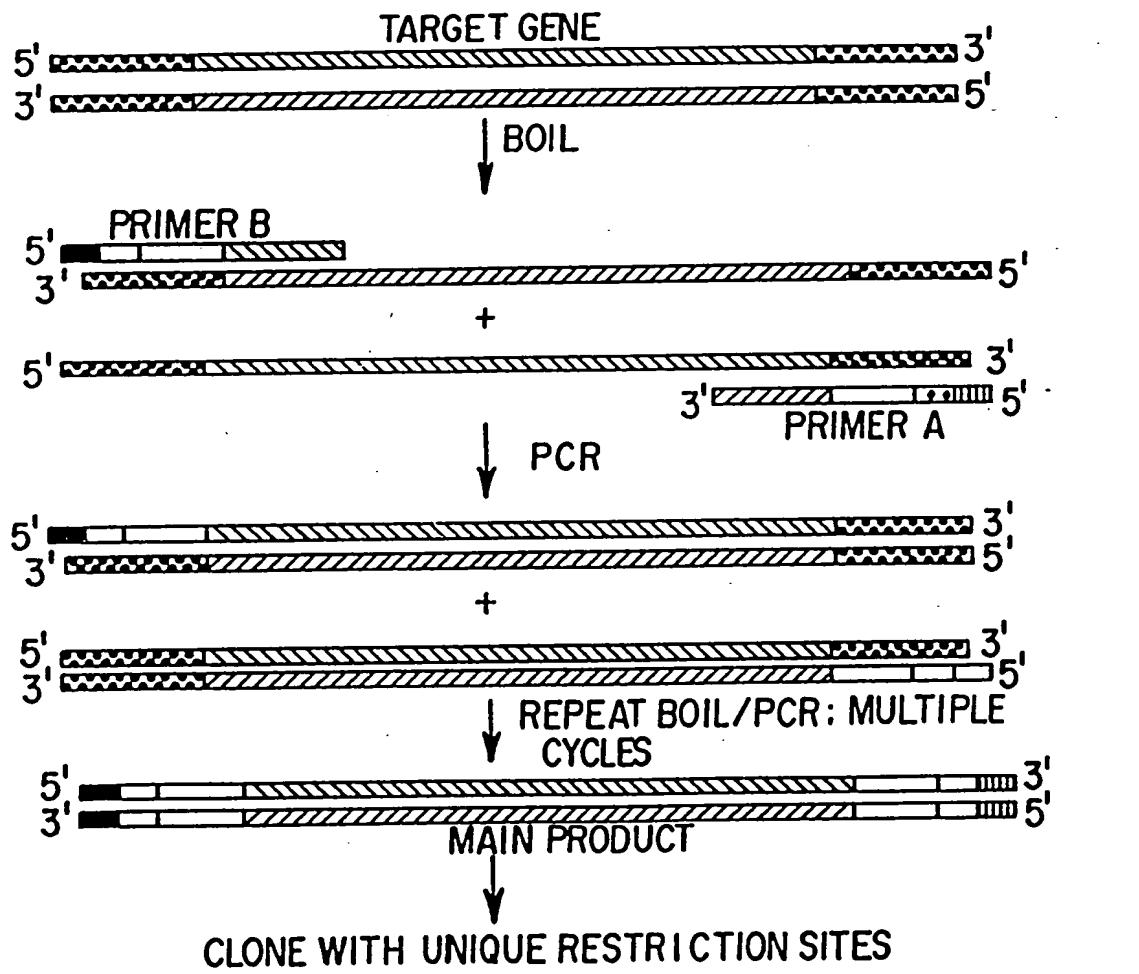


FIG. 9

FIG. 10



FLANKING SEQUENCE
UNIQUE RESTRICTION SITES
TARGET GENE SEQUENCE

PHAGE PROMOTER
VIRAL SEQUENCE (5' OR 3')
CLASS IIS SITE

FIG. IIIA

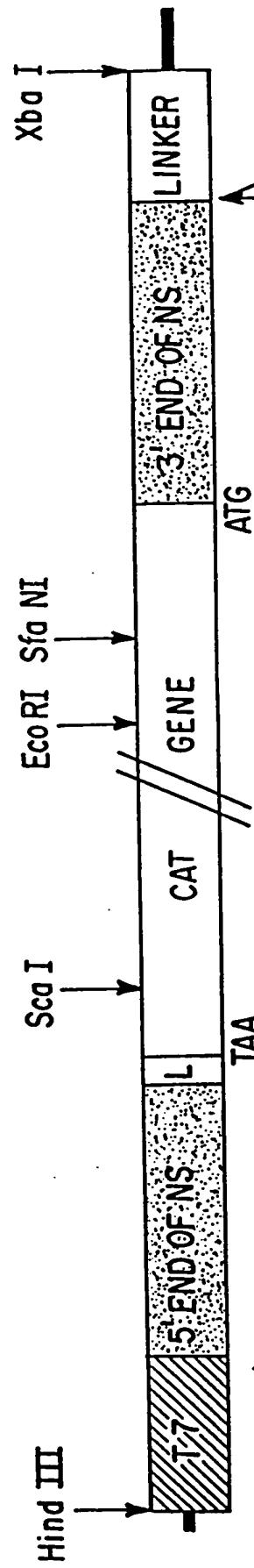
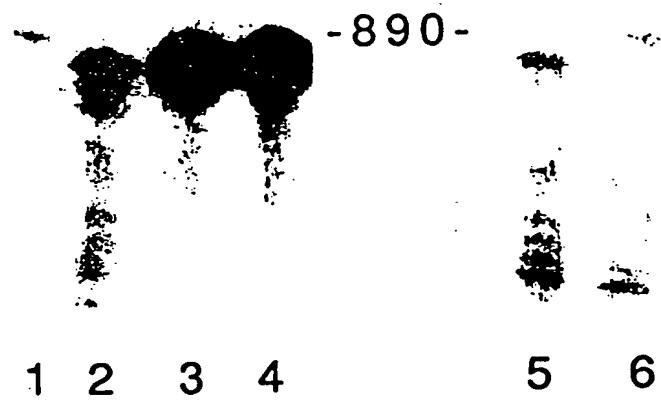


FIG. IIIB

5' AGUAGAACAAAGGGGUUUU CAGAUCUA UACGCCCCCCC // GUGGUUACCCAGGUUUUCCAU UAUUCUCCCCUCCUUCU 3'

3 5
FIG. 12



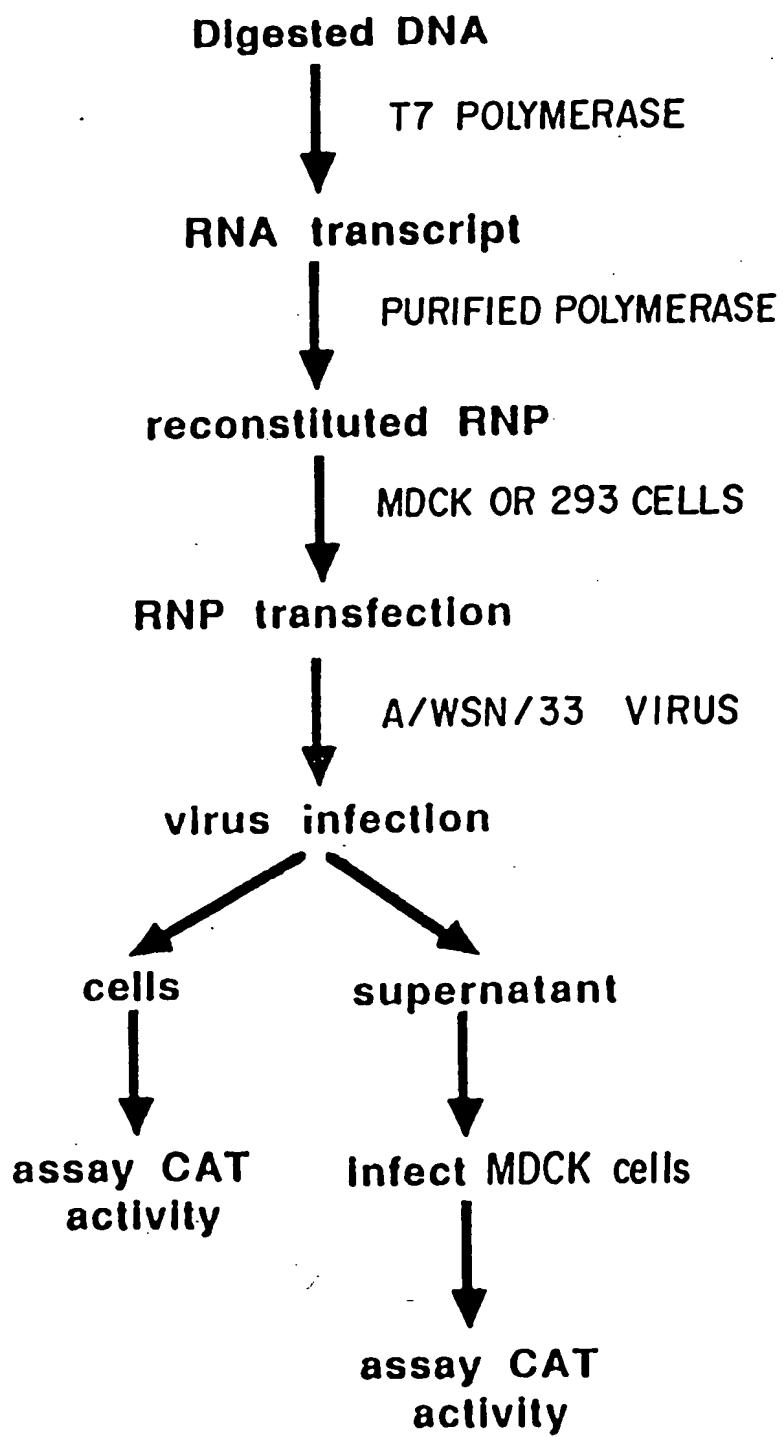


FIG. 13

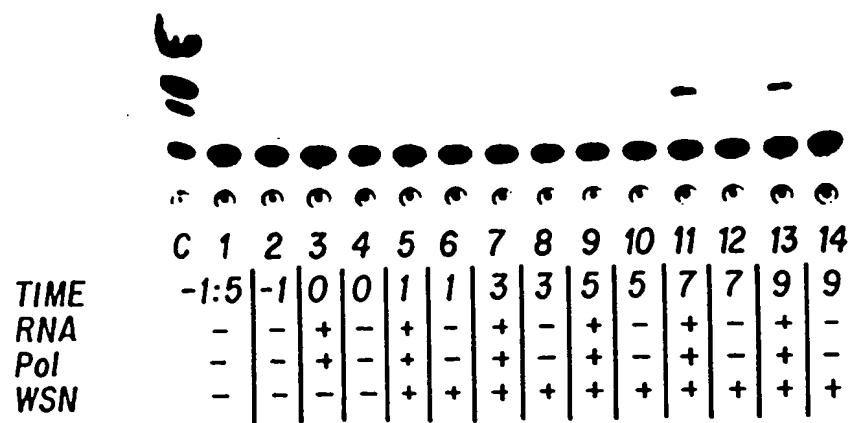


FIG. 14A

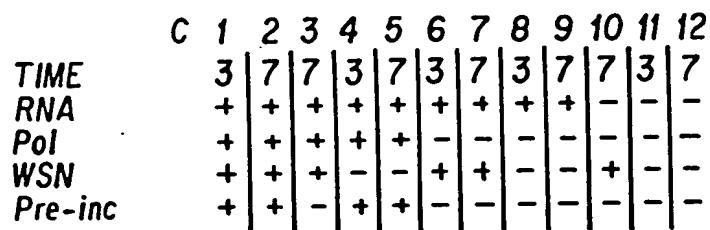


FIG. 14B

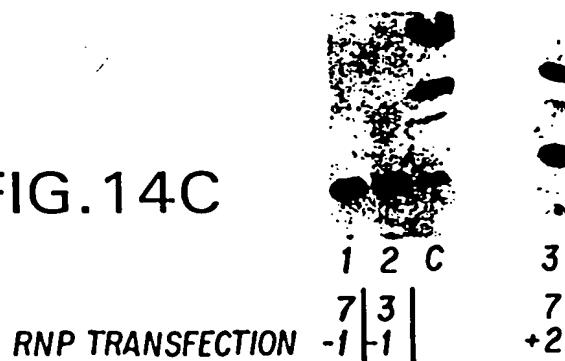
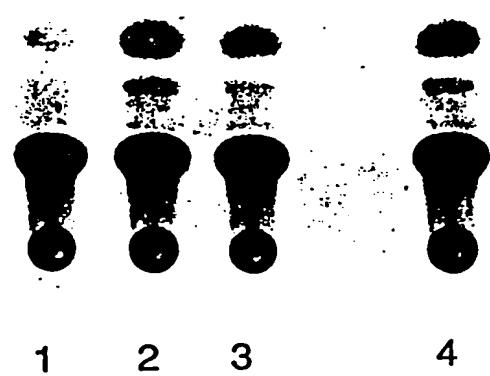
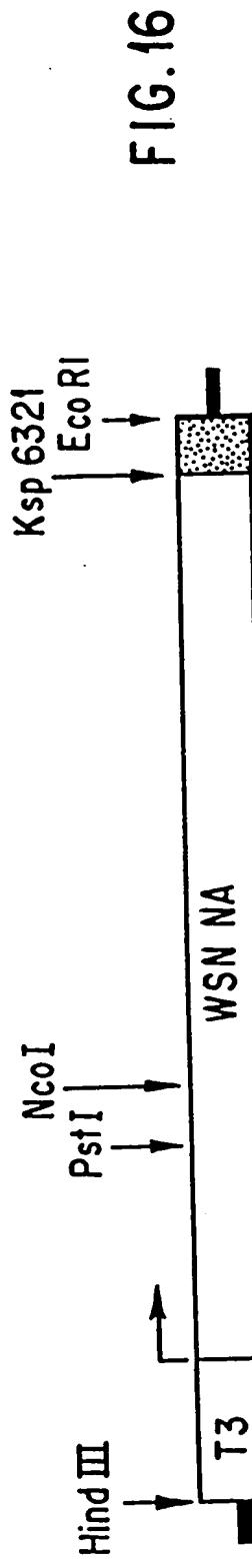


FIG. 14C

FIG. 15





T3N Av mut1

5'-AGUAGAAAACAAGGAG.....CUGGAGAUGUAUCCUAUUUAUAUCUAGGUUUUGGUCAAGGACACCCAU GG.....CCUGGUUUUCGCCU-3'

△

T3N Av mut2

5'-AGUAGAAAACAAGGAG.....CUGGCAUAGUAUCCUAUUUAUAUCUAGGUUUUGGUCAACCCAU GG.....CCUGGUUUUCGCCU-3'

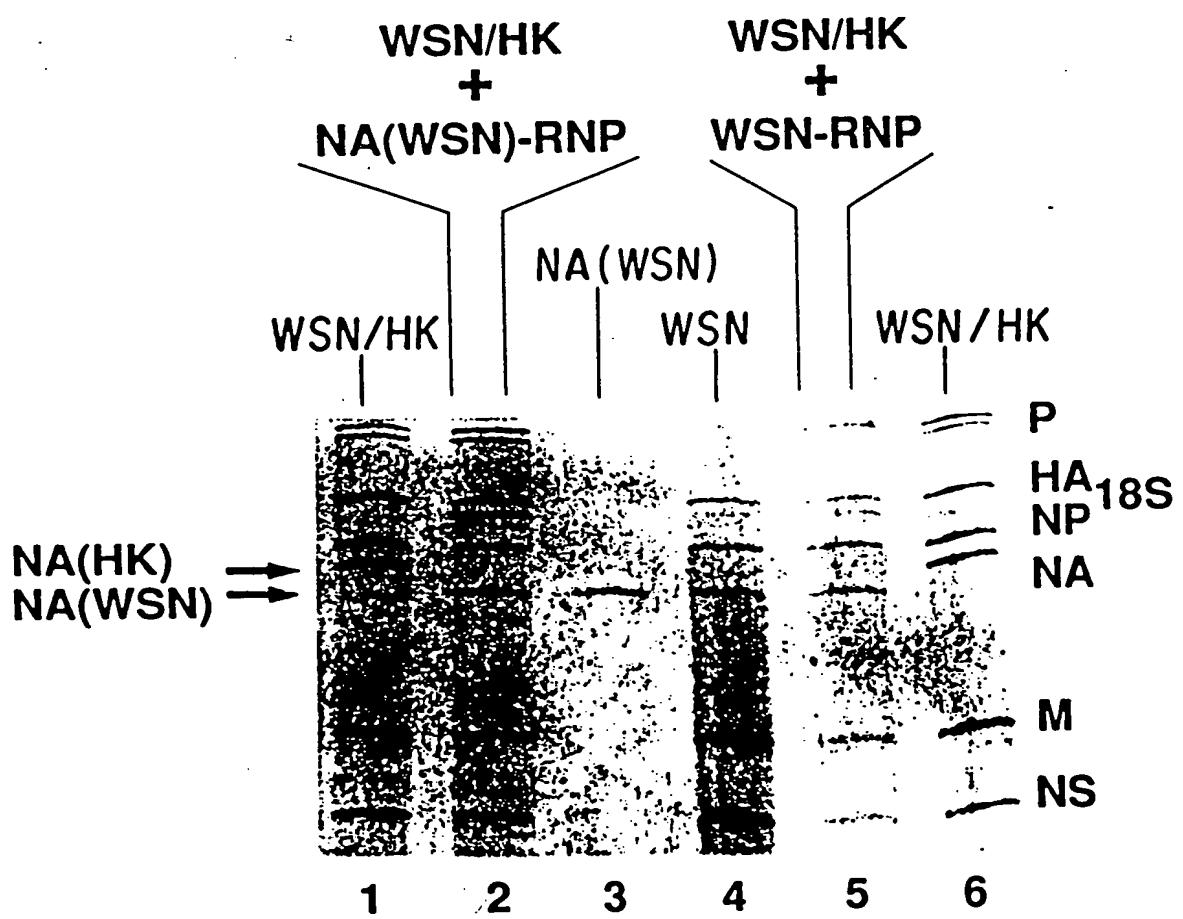


FIG. 17

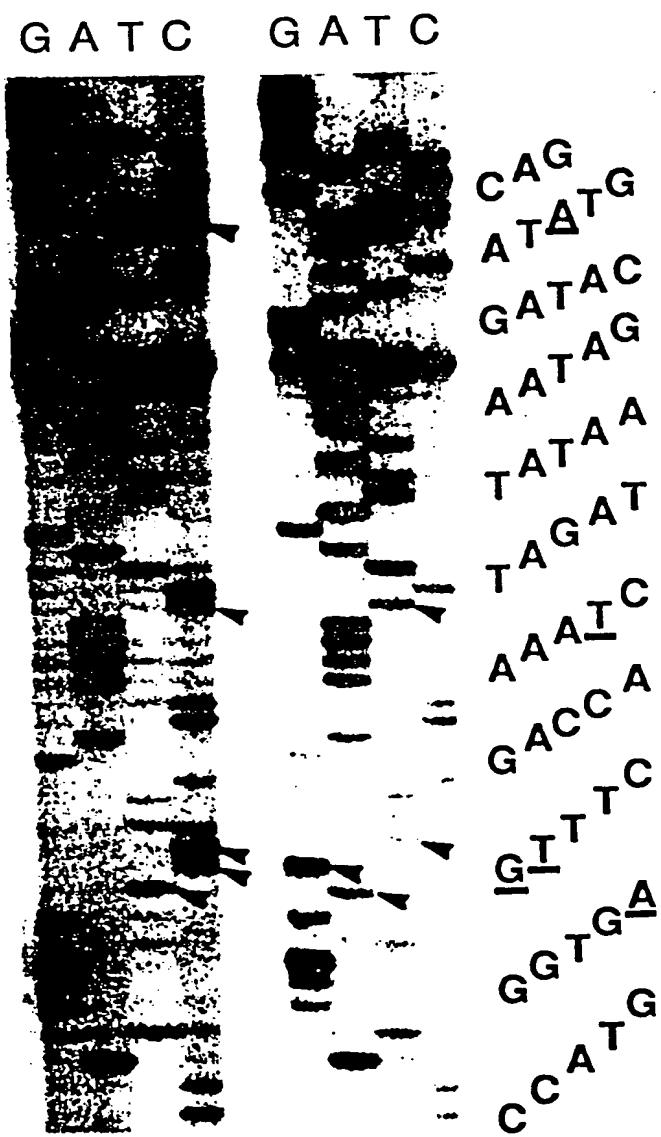
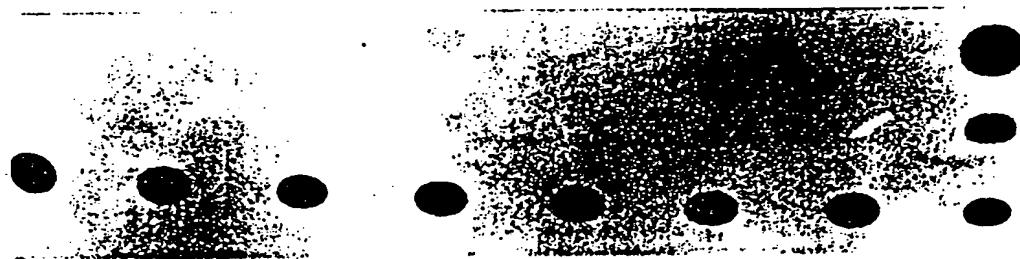


FIG. 18

FIG. 19



1	2	3	4	5	6	7	8
C	NAKED RNA NO VIRUS	NO VIRUS	INF. VIRUS	PB2	PB2 PB1	PB2 PB1 PA	PB2 PB1 PA NP



9	10	11
PB2 PA NP	PB2 PB1 PA NP	PB1 PA NP

FIG.20A

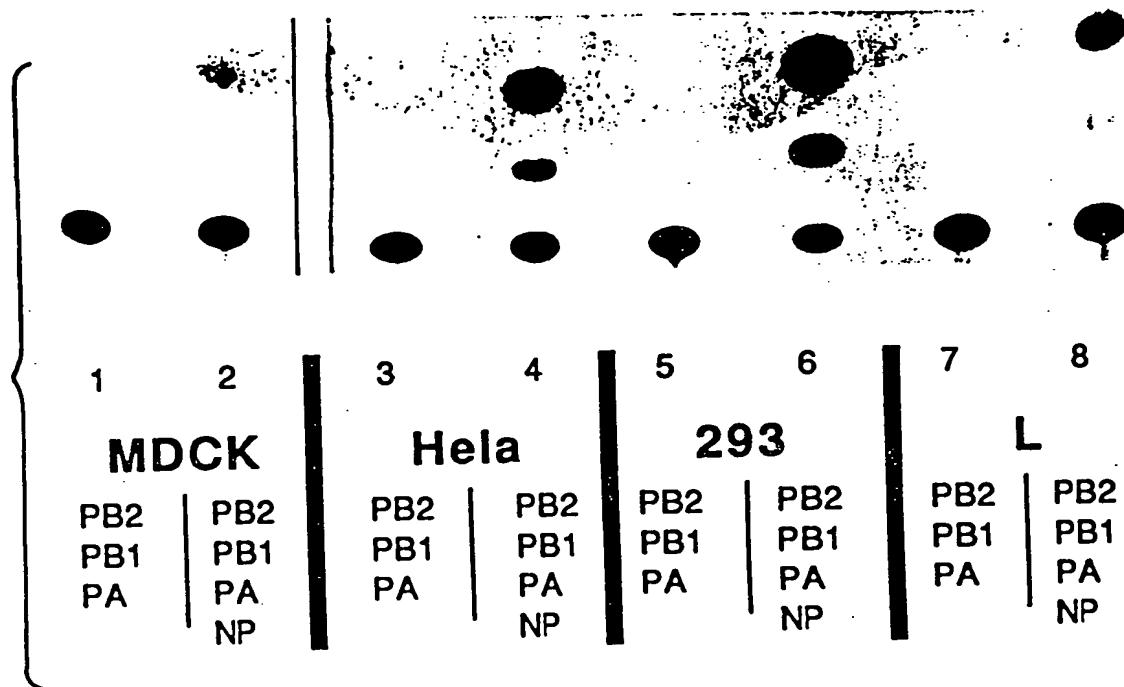


FIG.20B

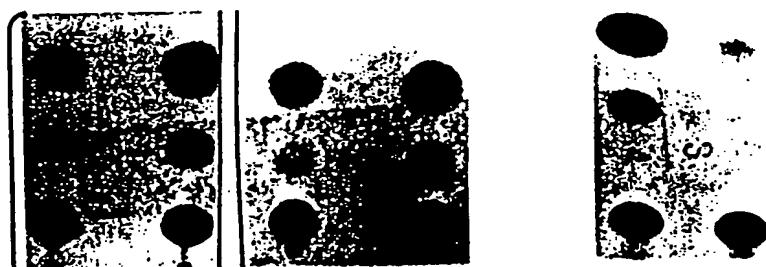
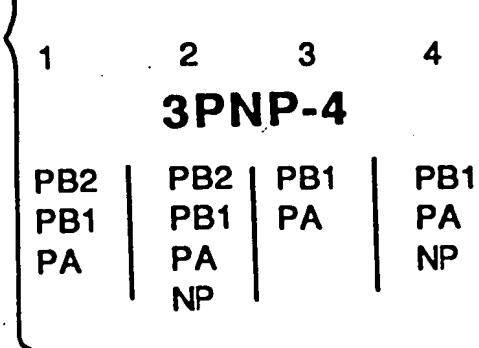


FIG.20C



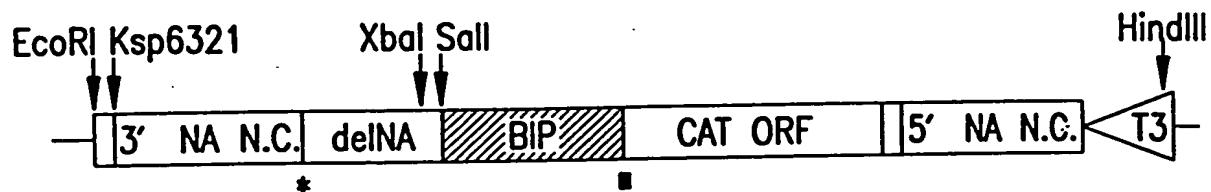


FIG.21A

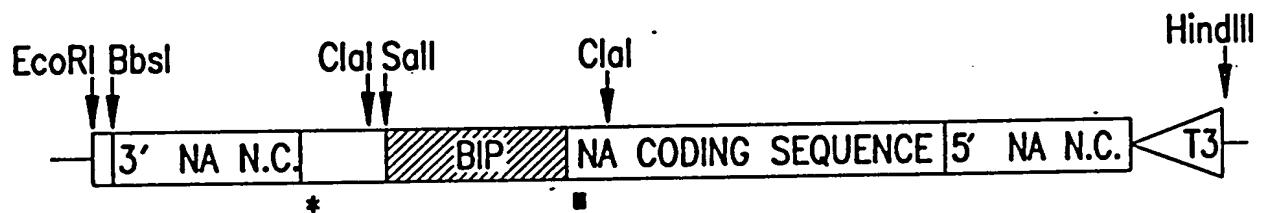


FIG.21B

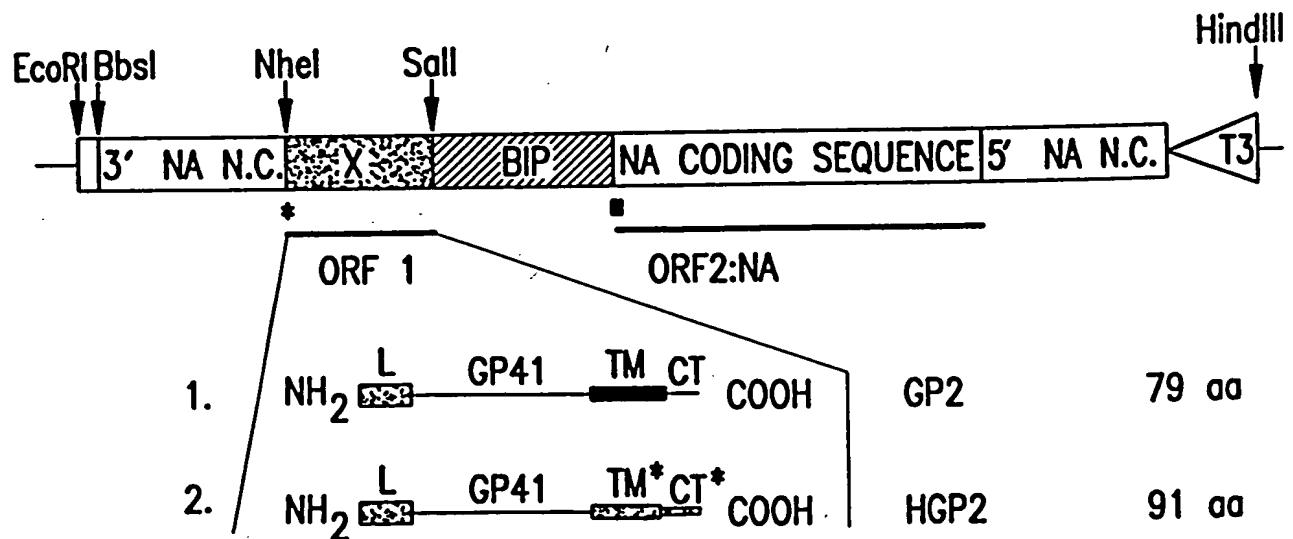


FIG.21C

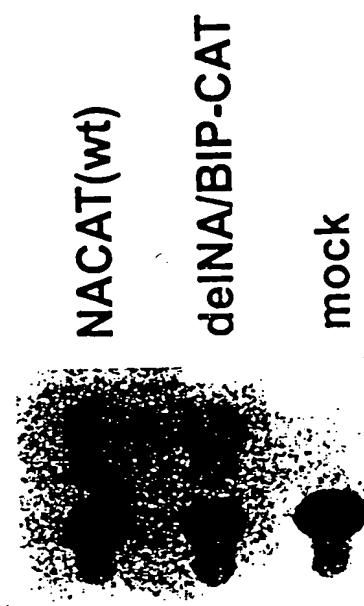


FIG.22

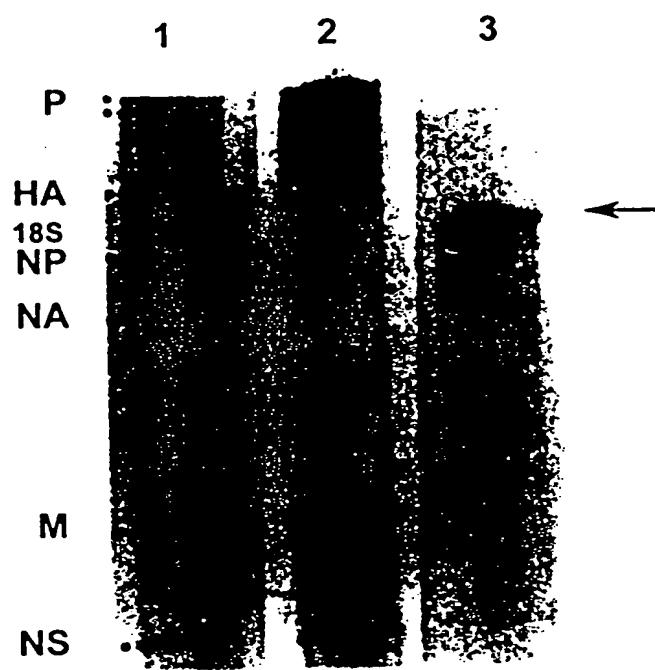


FIG.23

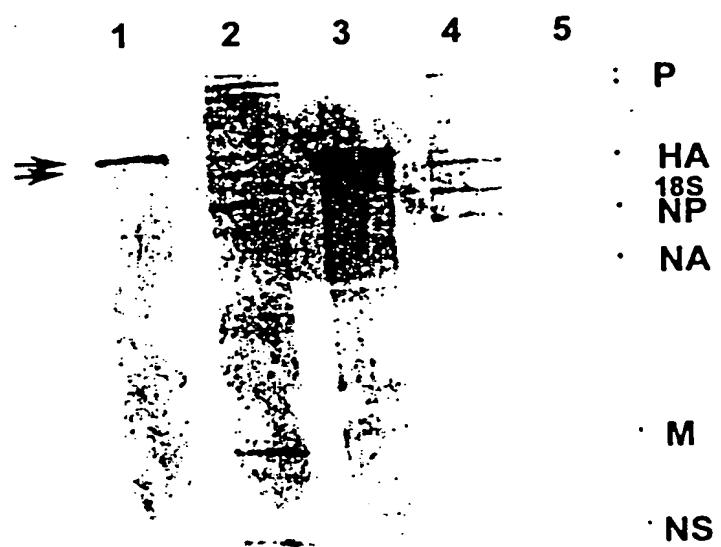


FIG.24

FIG.25A

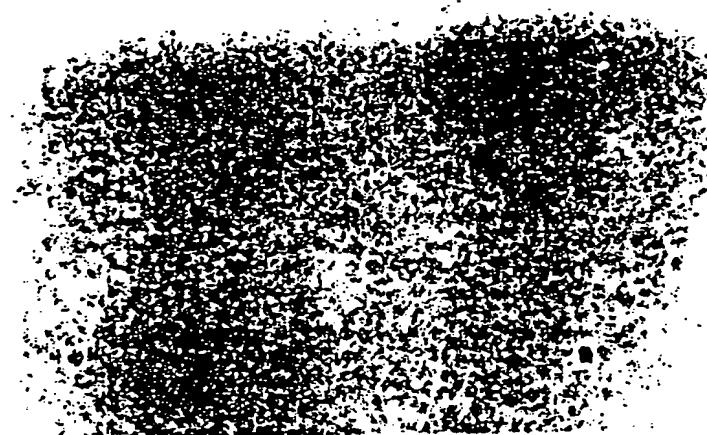


FIG.25B

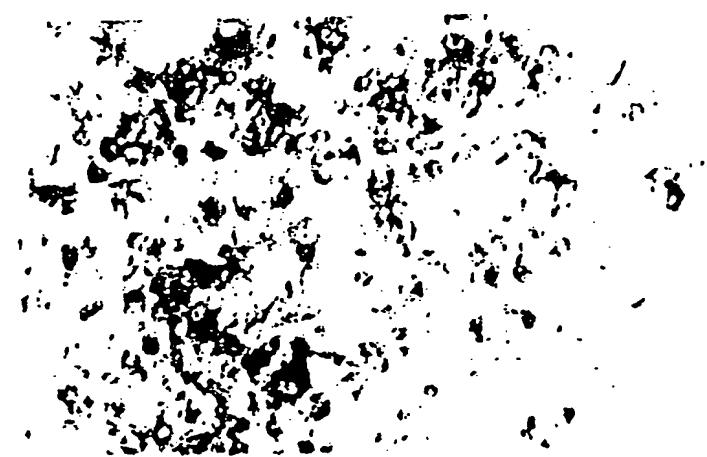


FIG.25C





FIG.26A

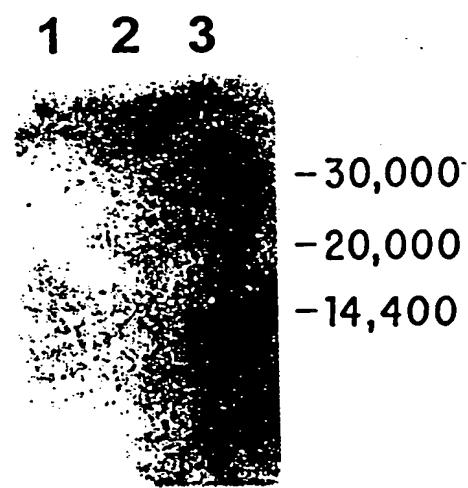


FIG.26B